

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001506**Date Inspected:** 22-Feb-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 4AW, OBG 1AE, OBG 1AW**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG 4AW

A joint Inspection was performed with Caltrans QA Lumley, ZPMC & ABF QA/QC representatives. Base metal surfaces of this segments floor "T" stiffeners and interior skin were inspected. The areas exhibited burrs and fins in the base metal as well as localized areas of arc strikes. ZPMC personnel ground affected areas and re-blasted the affected areas to re-establish profiles. Profile readings were obtained and the following values recorded 66-84 um. ZPMC & ABF QA/QC monitored ambient conditions inside the blast shop and commenced application of Interzinc 22. International Protective Coatings representative was also present during this inspection and verified the work to be in conformance with their respective product data sheets and recommendations.

OBG 1AE & OBG 1AW,

The diaphragm segment faying surface sub-assemblies were inspected jointly with ABF & ZPMC QA/QC personnel together with Caltrans QA Lumley SSPC SP-10 was observed and profiles obtained by ABF & ZPMC QA/QC profiles were 62-72um on base metal surfaces. Ambient conditions were monitored by ZPMC and found to be within the contract and the coating manufacturers recommendations. Interzinc 22 application commenced. Caltrans QA Lumley observed Application of Interzinc 22 to the aforementioned surfaces during the air-spray application process ZPMC personnel opened the door to the workshop to remove other materials and transport elsewhere. ZPMC personnel did not ensure the door remained closed and subsequently lost ambient conditions for application. Caltrans QA Lumley with ZPMC QC representative ascertained that ambient conditions were no

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longer suitable to permit application. ZPMC QC stopped in process application and amended the door issue. ZPMC was unable to coat within the allotted blast/application window and thus re-blasted the affected areas both previously coated and uncoated areas of the base metal surfaces.

International Protective Coatings technical service representative Zili Peng attended and observed all inspection processes and mixing and coating operations during joint inspection with ZPMC & ABF & Caltrans QA Lumley.

Summary of Conversations:

ZPMC QC representative requested additional inspection of OBG 1AW & OBG 1AE after base metal repairs were performed verbally. Caltrans QA Lumley complied and informed ZPMC to follow up with proper notice of inspection documentation.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (*58) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer
